

*FIG.* 1

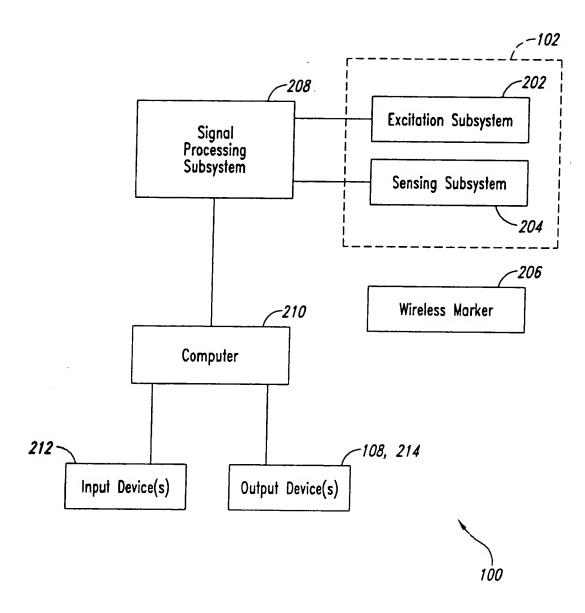
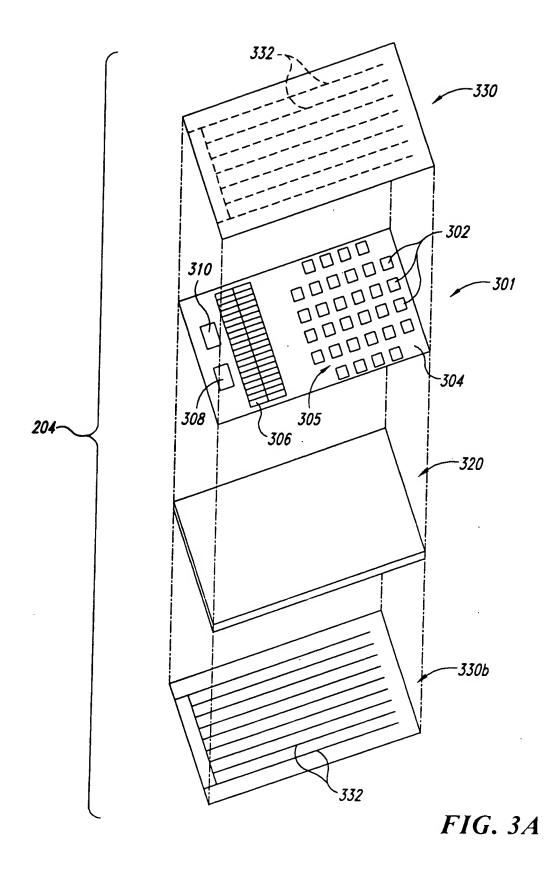


FIG. 2



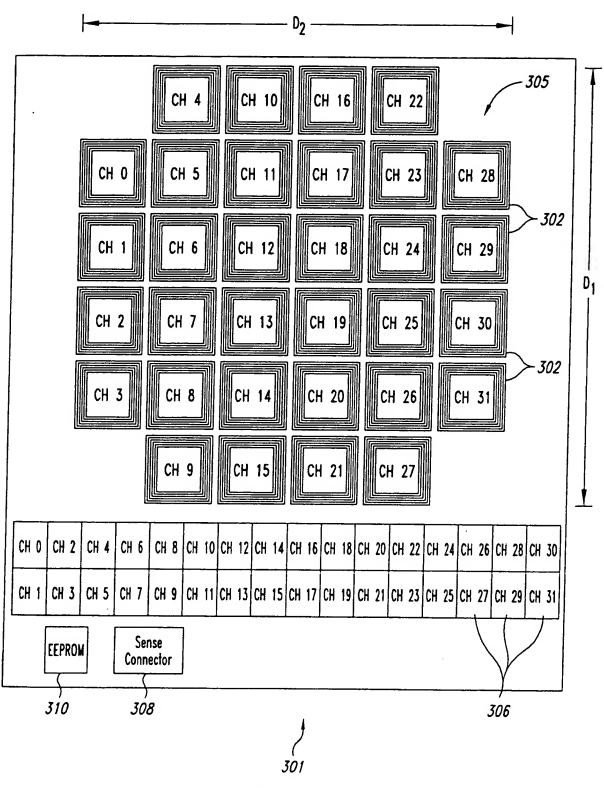
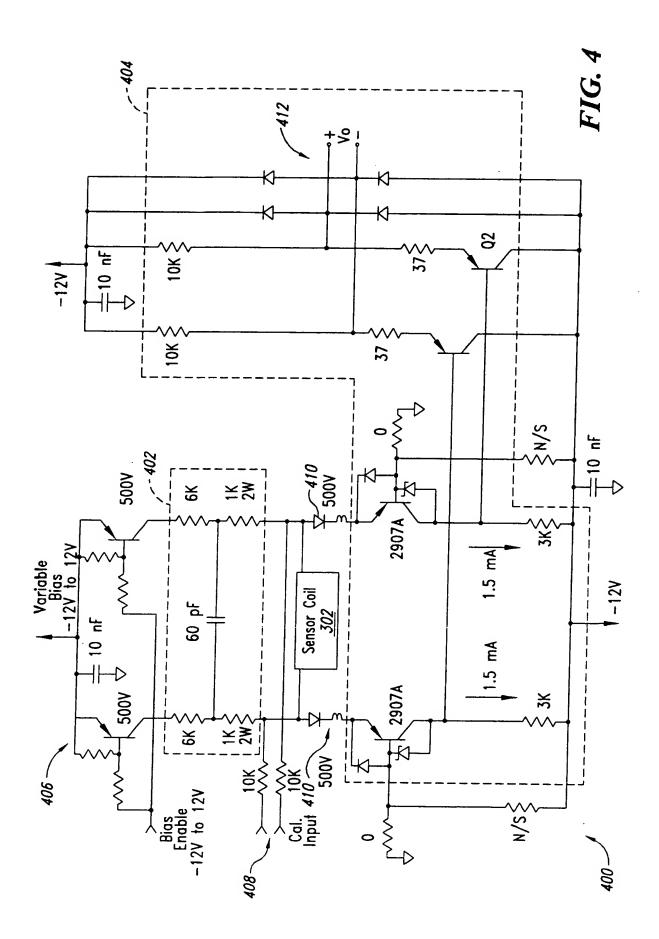
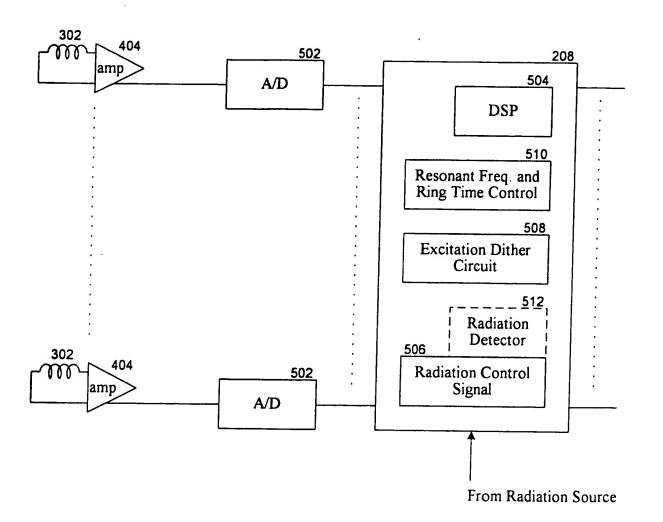
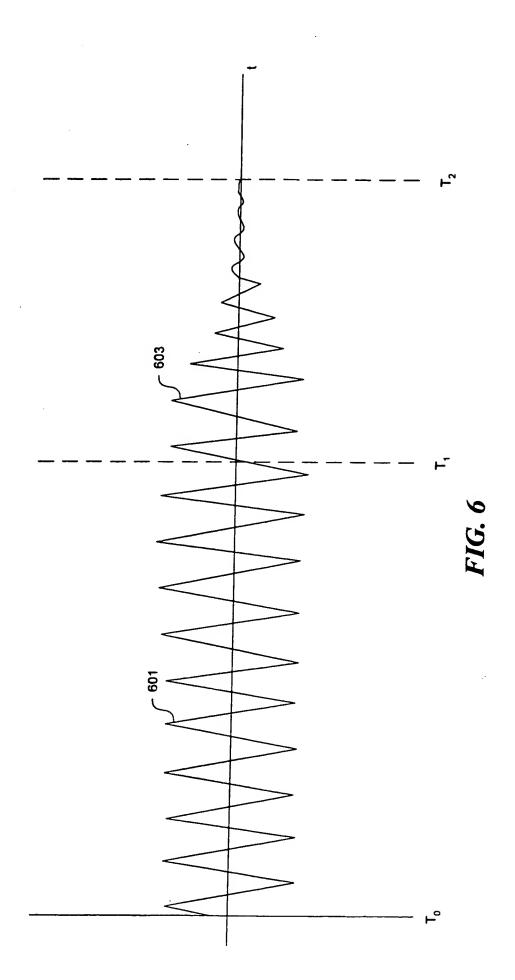


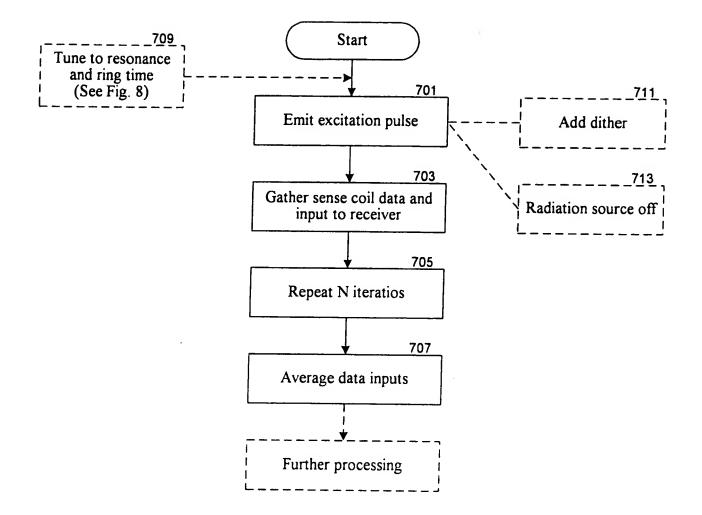
FIG. 3B



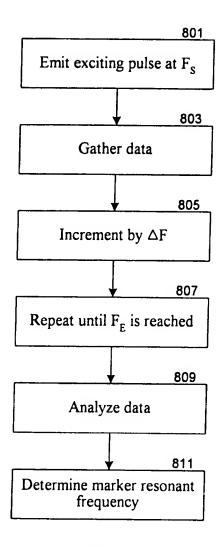


**FIG.** 5





**FIG.** 7



**FIG.** 8

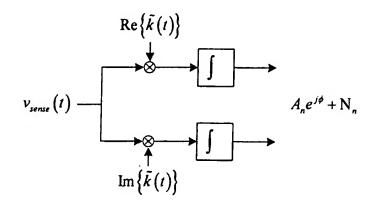


FIG. 9

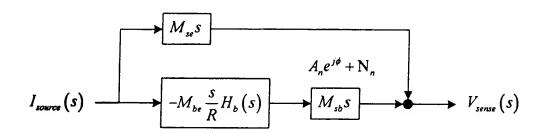


FIG. 10

$$i_{source}(t)$$
  $\longrightarrow h_b(t)$   $-\frac{M_{be}M_{sb}}{R}\frac{d^2}{dt^2}$   $\longrightarrow v_{sense}(t)$ 

FIG. 11

Sensed Voltage: 100 kHz Beacon, 100 kHz Excitation (arbitrary scale)

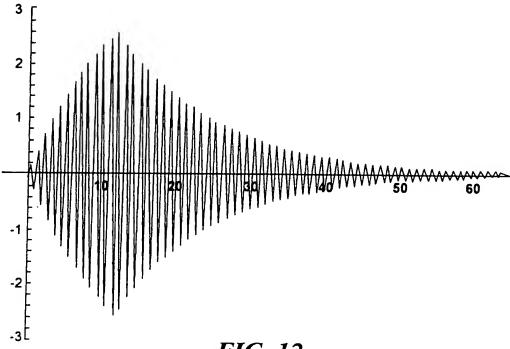


FIG. 12

Sensed Voltage: 100 kHz Beacon, 100 kHz Excitation (arbitrary scale)

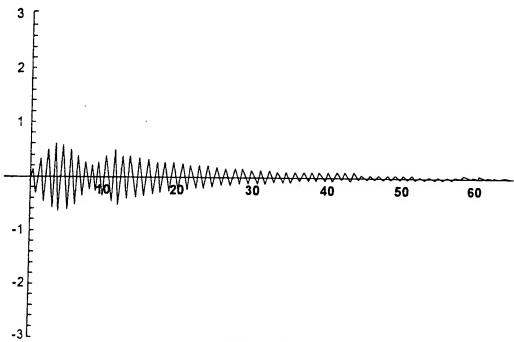
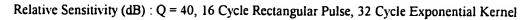
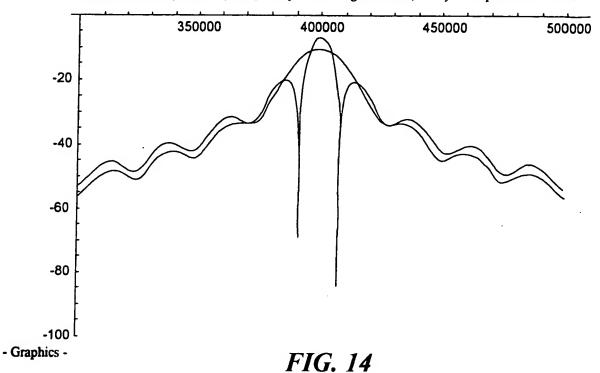


FIG. 13





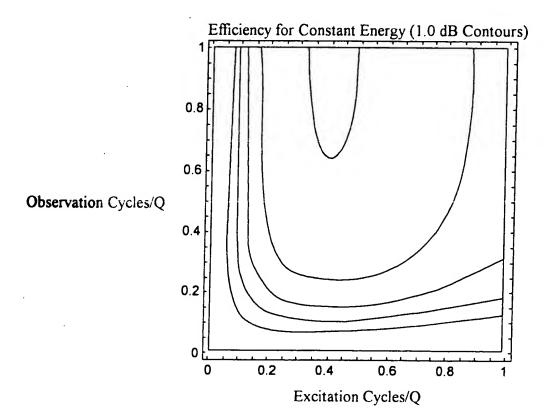
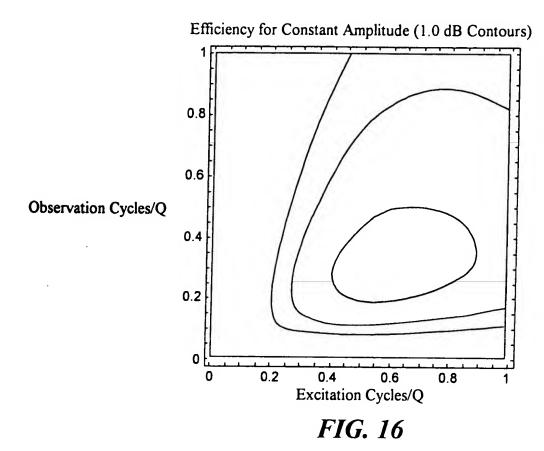
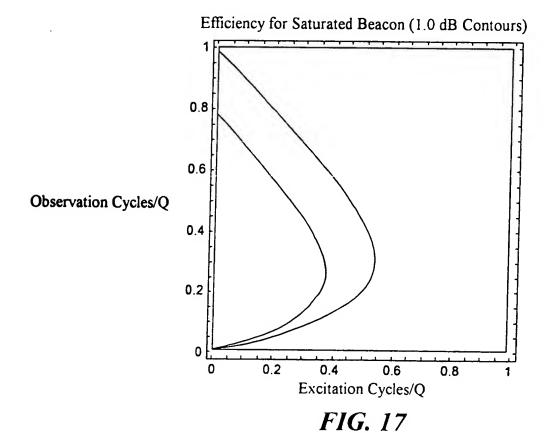


FIG. 15





Relative Sensitivity (dB): Q = 40, 16 Cycle Rectangular Pulse, 32 Cycle Exponential Kernel

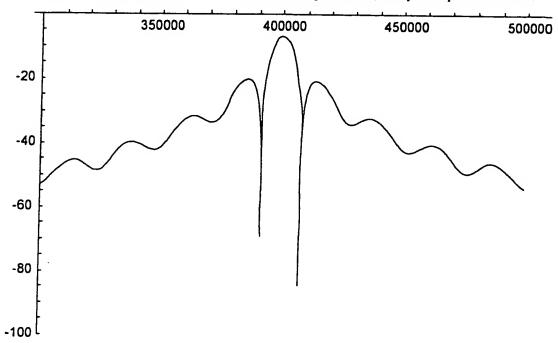


FIG. 18



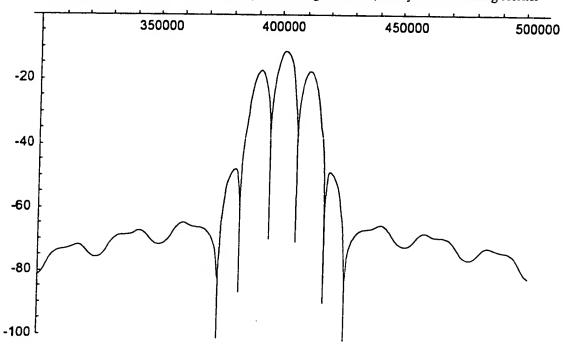


FIG. 19

Relative Sensitivity (dB): Q = 40, 16 Cycle Rectangular Pulse, 32 Cycle Blackman Kernel

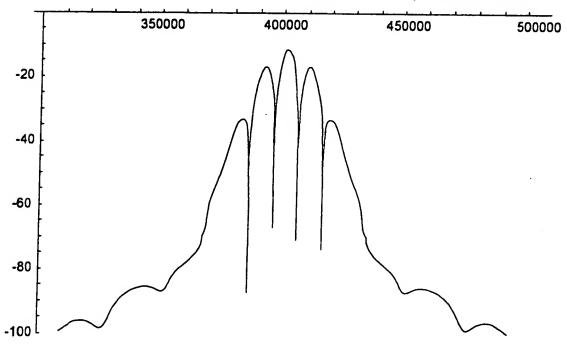


FIG. 20